

ABSTRACT

5 The difference in optical performance, such as
astigmatism, the radius of curvature of a first surface,
etc., of left and right lenses is kept at or below a
specific level, and the difference in optical performance
and the radius of curvature of the first surfaces between
new and old lenses when the wearer changes lenses is also
kept at or below a specific level, the result being lenses
10 that are more comfortable to wear and are more attractive.
When spectacle lens prescription values for a customer are
transmitted from an order-side computer to a manufacturer-
side computer, a check is made for whether prescription data
already exists for that customer, and if it does, the
15 optical performance of the new and old lens designs is
compared, and if the difference is within a specific range,
the process moves on to the machining step, but otherwise
new design data is selected and the optical performance
compared, and the above step is repeated until the optical
20 performance difference falls within the specified range. If
the optical performance difference or the difference in the
radius of curvature of the first surfaces between the left
and right lenses is higher than specified, design is
repeated until a value within the specific range is attained.

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